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	CENTRAL INTELLIGENCE AGENCY	REPORT NO
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COUNTRY	USSR	DATE DISTR. 36 Nec 1952
SUBJECT	Instructions of the Chief Directorate of Maritime Routes, MMF, for Improving Dredging Operations	of NO. OF PAGES 3
PLACE ACQUIRED	ordering operations	NO. OF ENCLS.
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- Despite repeated instructions on the part of the Ministry of the Merchant Fleet to peripheral organizations for improving the quality of dredging operations, the situation concerning this problem continued to be very tense up to 1950. This tenseness was particularly in evidence on the Volga-Caspian and the Ural-Caspian channels due to the urgency of cargo movements on these routes. For example, the Ural-Caspian channel would occasionally become impassable during the navigation season. As a result of this, extremely grucial unsatisfactory performance of dredging carawans gave rise to needled expenditures of capital because of revisions and arbitrarily fixed dradge-master tolerances. These tolerances were set at an absolute minimum depth and width of the channel mains the work was declared unsatisfactory and unacceptable. At the beginning of the navigation season (April) of 1950 a directive was issued with the aim of improving dredging operations.
- In drafting a plan for dredging operations all margins which are in excess of the draft of the dredger are included in the planned depth of the channel. Thus marthe water, and speed of the dredger transiting the channel. Since it is virtually an allowance over and above the specifications in the plans, the dredge-master is given master is allowed to dredge a specified amount in excess of the planned size of this allowed margin, he, is not paid for the amount by which he exceeded the tolerance. The result is that if the dimensions of the channel are less than specified in the plan the client may reject the work as unsatisfactory, and if the amount of earth dredged exceeds the tolerance allowed over the specifications, then the client need not pay for this excess dredging.

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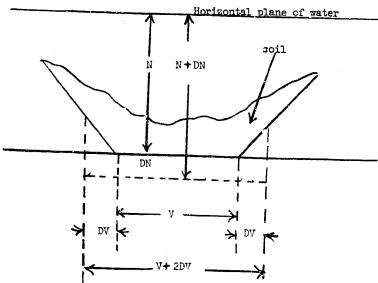
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Sketch of a channel cross-section.



N - Planned depth of the Channel

DN - Depth margin of the dredge-master

V - Planned depth

DV - Horizontal margin of the dredge-master

V - 2DV + Operational width

N - DN + Operational depth

The amounts of the dredge-masters margins wary by locality, type of dredger and also for the direction of the dimension (vertical or horizontal).

Magins for depths:

- (a) Southern ports of the Caspian Sea.
 Hydraulic dredges 30 centim ters
 Dipper dredges 20 centimeters
- .(b) Volga-Caspian and Ural-Caspian channels.
 Hydraulic and dipper dradges both 15 centimeters
- (c) Sea of Azov Hydraulic and dipy r dredges both 15 centimeters
- Seas of the northern basin. Hydraulic and dipper dredges both 20 centimeters.
- In special cases, depending upon the type of bottom, the margin is increased to as high as 50 centiliters. For example, in the case of an extremely rocky bottom where large boulders are encountered an umusual margin of 50 centimeters might be allowed.
- The directive has established certain measures for avoiding waste in the performance of dredging operations resulting from either shortages or surpluses or earth dredged.
 - The drafting and issuance of exhaustive technical documentation of a specified scale for dradging operations in which the following must be shown:

Dredging boundaries.
Operational width of the out.

Planned depth

Depth and width allowances. Readings of the operational level.

Soundings plan.

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It is absolutely forbidden to initiate dredging operations without technical documentation or with non-qualitative documentation.

- Before initiation of operations the following mechanical factors are to be eliminated lest they lower the quality of the work:

Accumulation of earth in the pit of the scoops of the dredger as a result of improper maintenance of the equipment.

Loss of earth from the soil-removing scows.

Loss of earth through faulty transfer pump couplings.

Loss of soil from the dumping area back into the channel because of either defective shoring in the dumping area or a defective spillway

Damage to the water-measuring control guage.

Fluctuation in the draft of the dredge unit because of expenditures of

In the event that these factors occur in the process of operations, corrective measures should be undertaken at once.

(d) Provision for a regular inspection of the condition of the depth of the channel after dredging.

The dredge-master must make this inspection without waiting for the arrival of a sounding party. This sounding is performed continually as the dredger progresses along the channel. Soundings must be taken at distances of 50, 100, and 200 meters behind the stern of the dredger.

(e) Maximum effort to meet the channel specifications of the technical plan and not use the full amount of the allowed margin if possible, and above all not to exceed the margin.

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